AZ Broadband Grant History
and
Formation of AZ Broadband Development Council

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to
Arizona Broadband Development Council
Inaugural Meeting

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Background: ARRA Grants Awarded in Arizona

Grantee	Total Award	Type
Arizona Government Information Technology Agency	$6,358,179	Broadband Data and Development
Arizona Office of Economic Recovery	$1,646,936	Public Computer Centers
Arizona State Library, Archives and Public Records	$1,278,528	Public Computer Centers
Communication Service for the Deaf, Inc.	$14,988,657	Sustainable Adoption
GovNET, LLC	$39,274,877	Infrastructure
Mission Economic Development Agency	$3,724,128	Public Computer Centers
Navajo Tribal Utility Authority	$32,190,067	Infrastructure
University Corporation for Advanced Internet Development	$62,540,162	Infrastructure

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Mapping and Planning Grant

Mapping $ 4.3M – 2 Grants
(Dec. 2009 & Sept 2010)

Broadband Planning $2.35M – 2 Grants
(Dec. 2009 & Sept 2010)

Tasks A	
Task A1	Oversight of AZ BroadBand Council
Task A2	State Strategic Broadband Plan

Arizona State Land Department – Tasks

Outreach

Task C   Task E   Task D

Task B

Define & Promulgate Policy

Land Dept Staff Input

Geo-Coded Database

Outsourced Contractor Input

NTIA

Mapping Data

Economic Dev. & Tribal Groups

Political Subdivisions

National Leadership Policy
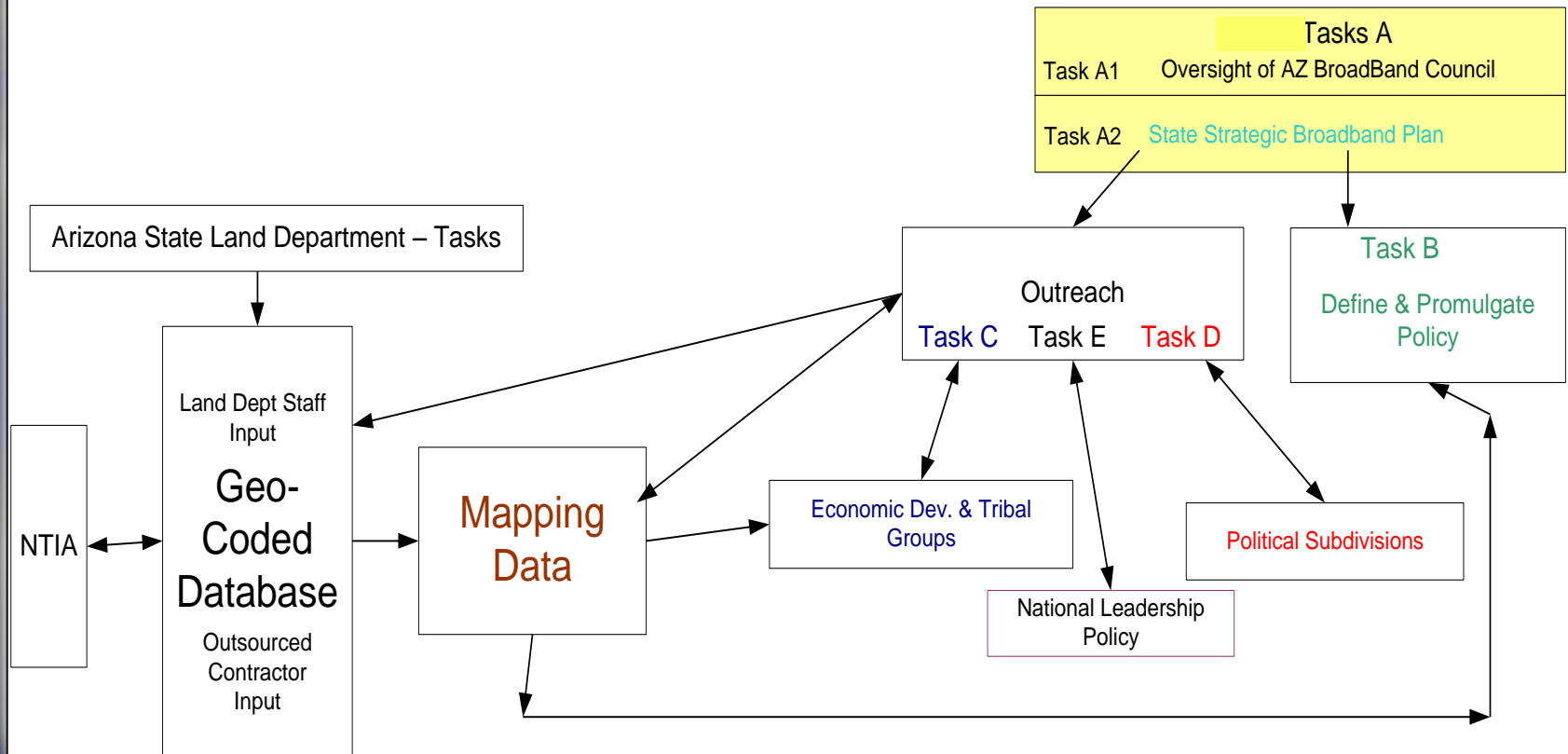
SBDD - State Broadband Data & Development (Now SBI – State Broadband Initiative)

Background: Arizona TELCO Owned Middle Mile

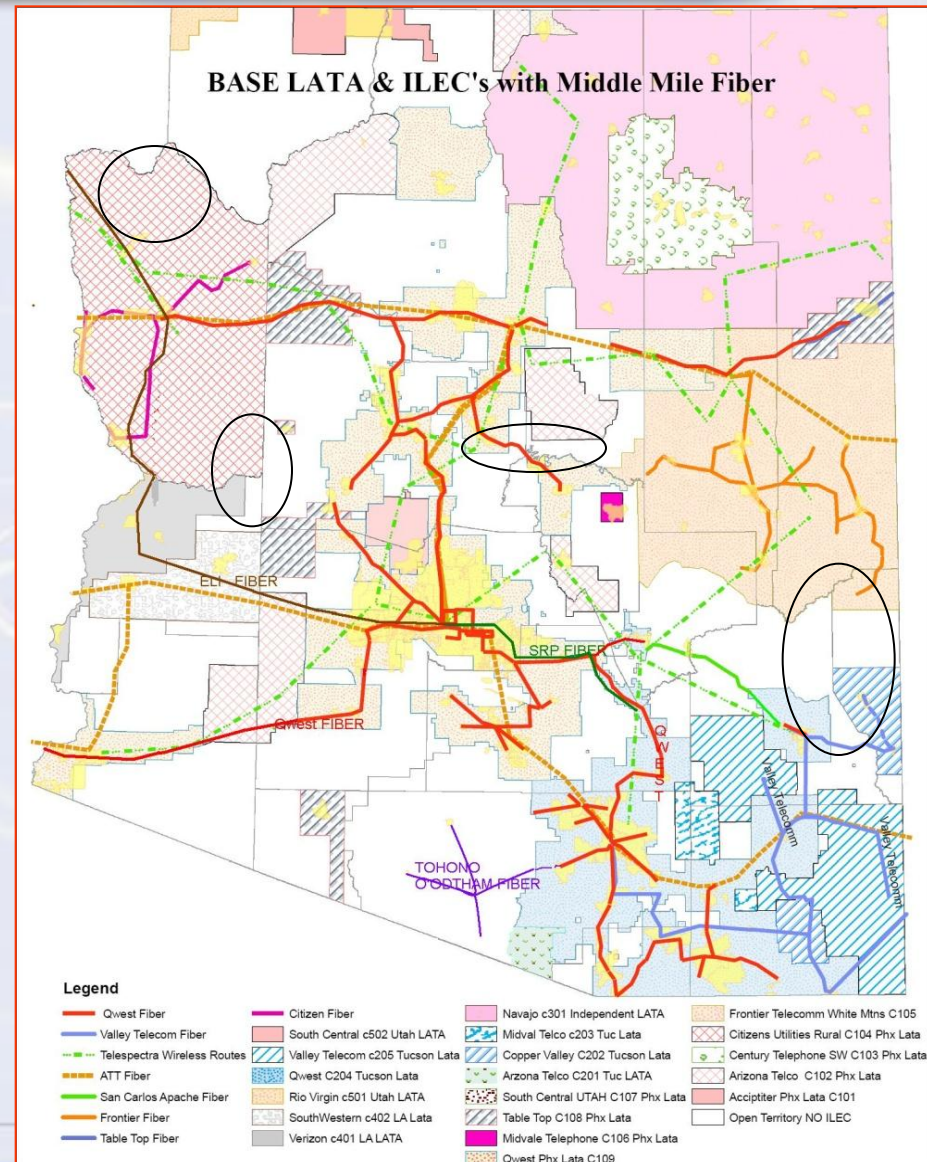**Arizona's ILEC owned fiber is the basis of Arizona's broadband backhaul**

Note:

- **The stranded runs**

- **The lack of loops.**

- **The lack of redundancy**

- **<u>The minimal fiber connection between ILEC areas</u>**

Law of supply and demand applies to end-user costs for broadband

- **Less supply = Higher costs**
  - **Urban - < $350/month for T1**
  - **Rural - $700 - $1,500/month**

Note: Robust supply of middle mile fiber in Japan equates to 63Mb avg connection speed at $29/month

BASE LATA & ILEC's with Middle Mile Fiber

Legend

Qwest Fiber	Citizen Fiber	Navajo c301 Independent LATA	Frontier Telecomm White Mtns C105
Valley Telecom Fiber	South Central c502 Utah LATA	Midval Telco c203 Tuc Lata	Citizens Utilities Rural C104 Phx Lata
Telespectra Wireless Routes	Valley Telecom c205 Tucson Lata	Copper Valley C202 Tucson Lata	Century Telephone SW C103 Phx Lata
ATT Fiber	Qwest C204 Tucson Lata	Arizona Telco C201 Tuc LATA	Arizona Telco C102 Phx Lata
San Carlos Apache Fiber	Rio Virgin c501 Utah LATA	South Central UTAH C107 Phx Lata	Acciptiter Phx Lata C101
Frontier Fiber	SouthWestern c402 LA Lata	Table Top C108 Phx Lata	Open Territory NO ILEC
Table Top Fiber	Verizon c401 LA LATA	Midvale Telephone C106 Phx Lata	
		Qwest Phx Lata C109	

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National BDIA and SBDD Broadband Project

- **National Broadband Mapping and Planning Project**
  Total of $350 Million allocated to 2008 BDIA* law from 2009 ARRA including:
  - **About $225 Million for National and 50+ state mapping projects**
  - **About $125 Million allocated for states' & national broadband planning projects**
  - **5 Year Projects (2010-2014)**

- **Current National Broadband Map**
  - **Initially released Feb 17, 2011**
  - **National Map, 33 million geocoded records**
  - **Web based and searchable, producing printable maps at detailed levels**
  - **Interactive queries based on wide range of criteria**
  - **Data base is updated every six months from AZ and other States grantees**

  *BDIA - Broadband Data Improvement Act of 2008 (George Bush signed into law)

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Arizona's SBDD Grants

- **Arizona Broadband Mapping and Planning Project**
    - **Application process for BDIA grant started May 2009**
    - **Total is $6.3M Federal funds ($3.9M mapping, $2.4M planning) plus State in-kind matching requirement (20% of total grant)**
    - **Both are now 5 Year Projects (2010-2014)**

- **Current Status of Arizona Broadband Mapping and Planning Grant**
    - **Federal reporting and data upload requirements met on time and within budget**
    - **AZ Broadband Map released June 2011**
   - **Broadband Planning meeting goals and benchmarks in grant application**

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- ✓ **Maps (US and AZ) provide interactive query processes at census block level to tie together demographic and broadband details**

- ✓ **Provide government and private entities new assistance in project planning where access to broadband infrastructure and connectivity are factors. Allows:**

  - • **Strategic modeling of the economic impact of demand aggregation based on CAI data**

- ✓ **AZ Broadband Map and related demographic data will become a source for comprehensive infrastructure planning and for economic development far into Arizona's future**

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Arizona SBDD Broadband Planning Grant
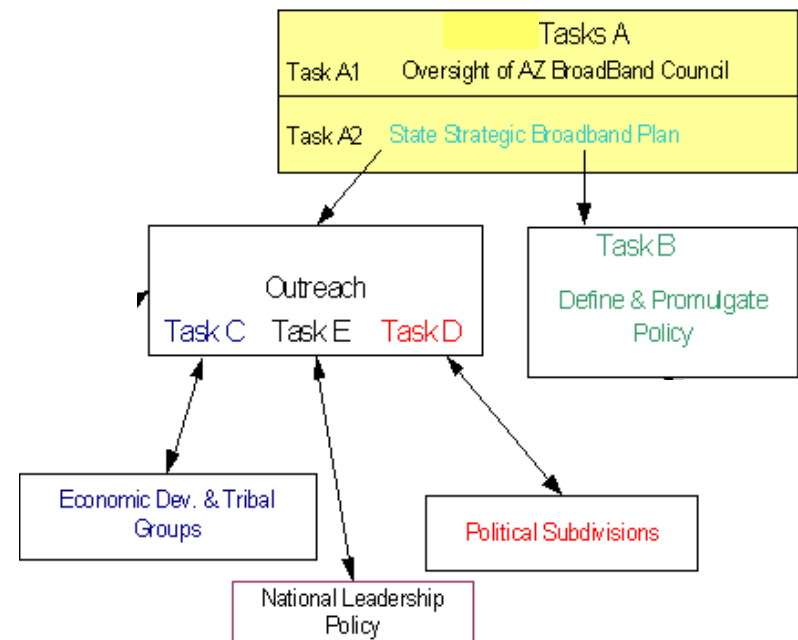
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Three Separate focuses over 5 years (2010 - 2014) $2.35M

- **Focus 1**
  ASET's State Level Planning for Management Capacity Building: $1.51 Million
  - **In year 1: Initiated roles, completed planning processes, approved plans and budgets, hired needed expertise, set stage for overall plan $499K**
  - **Year 2-5: Created Arizona Broadband Development Council $62K**
  - **Year 2-5: Research and Recommend Policy and Best Practices $128K**
  - **Year 2-5: Retain personnel as needed to complete tasks $397K**
  - **Year 3-5: Create and maintain AZ Broadband Strategic Plan $78K**
  - **Year 3-5: ASET's outreach to rural political subdivisions, economic development groups and tribes $295K**
  - **Year 2-5: Participate in national discussions about broadband $51K**

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- **Focus 2**

  Years 3-5: Statewide Technical Assistance Contracts $523K
    - **Identify cadre of expertise and contract with non-profit organizations or individuals who can provide broadband technical assistance**
    - **Identify rural communities needs and address as appropriate**

- **Focus 3**

  Years 3-5: Local or Regional Broadband Planning $320K
    - **Organize and support at least 8 regional broadband planning groups**
    - **Integrate local strategic plans into State Strategic Broadband Plan**

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- ✓ **Creation and maintenance of State Strategic Plan**

- ✓ **Policy improvements for broadband Infrastructure to be considered as fundamental and essential infrastructure in the law**

- ✓ **Alignment with National Plan**

- ✓ **Nexus for discussion and level playing field for all stakeholders, including the interests of providers, government, consumers and business**

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- ✓ **Accurate understanding of local conditions, better chance for local areas to receive key grants, quicker problem solving**

- ✓ **Integration of broadband into local area economic development discussions**

- ✓ **Targeted planning for broadband at a local level**

- ✓ **Leveraging of Planning Grant dollars into Infrastructure build-out grant dollars**

- ✓ **Move from local plans to build out to economic benefit**

- ✓ **Scope is eight rural regions of the State, each with a new paradigm for economic growth, better quality of life and increased access to the information age**

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